

Serial No. 10/034,082
Amdt. dated January 19, 2005
Reply to Office Action of October 19, 2004

Attorney Docket No. 29505/PF01994NA

Amendments to the Specification:

Please replace the paragraph beginning at page 8, line 6, with the following amended paragraph:

Bluetooth is a computing and telecommunications industry specification that generally defines the manner in which two or more devices communicate with each other using short-range wireless connections. An embodiment of the self-positioning wireless transceiver system 100 ~~40~~, adapted to operate in accordance with Bluetooth specifications generally includes self-positioning transceivers T1, T2, T3 that are typically equipped with a microchip transceiver that transmits and receives communication data in a previously unused frequency band of 2.45 gigahertz. Of course, the frequency band may vary depending on local regulations for individual countries. Each self-positioning transceiver T1, T2, T3 used, is typically assigned a unique address such as for example, a 48-bit address in accordance with the IEEE 802.11 standard. Communication links created between neighboring self-positioning transceivers T1, T2, T3, a self-positioning transceiver T3 and the source device 102 and/or a self-positioning transceiver T1 and the destination device 104 may, in accordance with Bluetooth technology, comprise point-to-point or multipoint communication links. The wireless communication range for the self-positioning transceivers T1, T2, T3 is typically approximately ten meters, however, the use of alternative wireless communication ranges are also considered to be within the scope of the invention. Communication data packets may be exchanged between neighboring communication devices, such as the source device 102, neighboring self-positioning transceivers T1, T2, T3 and/or the destination device 104 at a communication data transmission rates of approximately

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one megabit per second or as high as approximately two megabits per second, when using second generation technologies. Frequency hop schemes may be employed to permit the self-positioning transceivers T1, T2, T3 to communicate with each other in areas with relatively high levels of electromagnetic interference. Built-in encryption and verification protocols, as are well known to one skilled in the art, may also be incorporated.

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Please replace the paragraph beginning at page 9, line 8, with the following amended paragraph:

The IEEE 802.11 is a family of specifications currently including four specifications, 802.11, 802.11a, 802.11b and 802.11g. An embodiment of the self-positioning wireless transceiver system 100 ~~10~~, adapted to operate in accordance with the IEEE 802.11 family, typically employs Ethernet protocol and carrier sense multiple access with collision avoidance (CSMA/CA) path sharing applications. The self-positioning wireless transceiver system 100 ~~10~~ generally includes self-positioning transceivers T1, T2, T3 that are typically equipped with a microchip transceiver that transmits and receives communication data in a previously unused frequency band of 2.45 gigahertz. Of course, the frequency band may vary depending on local regulations for individual countries. An embodiment of the self-positioning wireless transceiver system 100 ~~10~~, adapted to operate in accordance with the 802.11a specifications generally operates at radio frequencies ranging from approximately five gigahertz to approximately six gigahertz. Under the 802.11a standard, the use of an orthogonal frequency-division multiplexing (OFDM) modulation scheme enables the exchange of communication data packets between neighboring self-positioning transceivers T1, T2, T3, between a self-positioning transceiver and the source device 102 or the destination device 104 at communication data transmission rates, such as but not limited to, approximately six megabits per second, approximately twelve megabits per second, approximately twenty-four megabits per second or even at communication data transmission rates as high as approximately fifty-four megabits per second.

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Please replace the paragraph beginning at page 10, line 5, with the following amended paragraph:

An embodiment of the self-positioning wireless transceiver system 100 ~~40~~, adapted to operate in accordance with the 802.11b standard, employs a complementary code keying (CCK) modulation scheme. The use of the CCK modulation scheme typically supports relatively high communication data transmission rates between with reduced susceptibility to multipath-propagation interference.

Please replace the paragraph beginning at page 10, line 10, with the following amended paragraph:

An embodiment of the self-positioning wireless transceiver system 100 ~~40~~, adapted to operate in accordance with the 802.11g standard, permits communication data transmissions over relatively short distances at communication data transmission rates of up to approximately 54 megabits per second. Alternate embodiments of the self-positioning wireless transceiver system 100 may operate in accordance with infrared and/or ultrasonic communication standards and protocols as are known to one skilled in the art.